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(71) Applicant (for DE only): **PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH [DE/DE]**; Stein-damm 94, 20099 Hamburg (DE).

(71) Applicant (for all designated States except DE, US): **KONINKLIJKE PHILIPS ELECTRONICS N. V. [NL/NL]**; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **NEUMANN,**

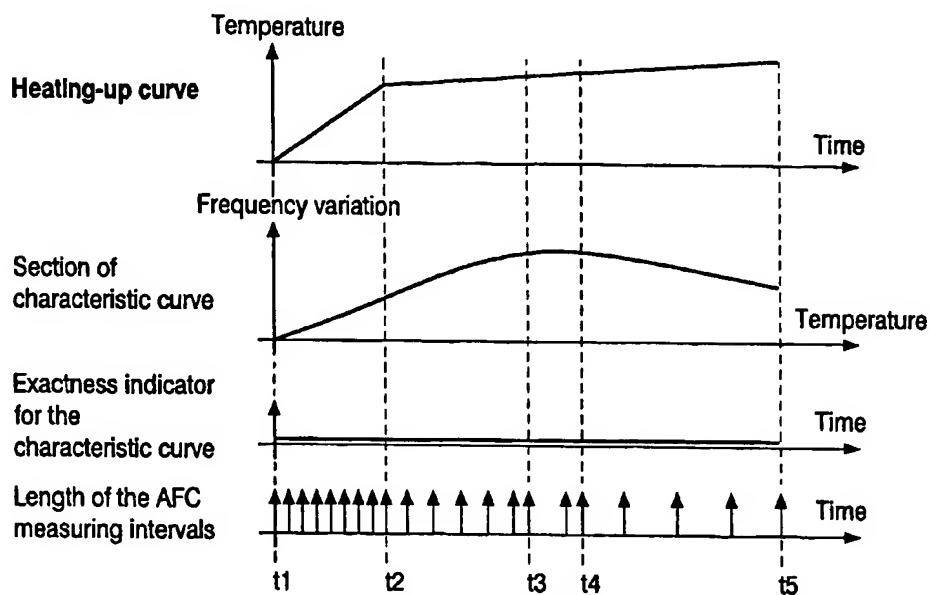
(74) Agent: **MEYER, Michael**; Philips Intellectual Property & Standards GmbH, Weisshausstr. 2, 52066 Aachen (DE).

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(54) Title: METHOD AND ARRANGEMENT FOR FREQUENCY SYNCHRONIZATION OF A MOBILE STATION WITH A BASE STATION IN A MOBILE COMMUNICATION SYSTEM



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(57) Abstract: In a method for synchronizing a mobile station with the base station in a mobile communication system, a reference-frequency oscillator is re-adjusted. To enable an inexpensive reference-frequency oscillator of simple construction to be used, the frequency variations resulting from a change in the temperature of the mobile station and a change in its location are determined and/or predicted separately. When the frequency variations are large, the mobile station is synchronized with the base station more frequently than when they are small.



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